

FORM PTO-1390 (Modified) U.S. PATENT AND TRADEMARK OFFICE; U.S. DÉPARTEMENT OF COMMERCE (REV. 7-2005)		ATTORNEY'S DOCKET NUMBER PLP575USw
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371		U.S. APPLICATION NO. (If known, see 37 CFR 1.5) To be assigned 19/590829
INTERNATIONAL APPLICATION NO. PCT/EP2005/002067	INTERNATIONAL FILING DATE February 26, 2005	PRIORITY DATE CLAIMED February 26, 2004
TITLE OF INVENTION <b>REDUCTION OF SPONTANEOUS MUTATION RATES IN CELLS</b>		
APPLICANT(S) FOR DO/EO/US <b>Heike STROBEL and Wolfgang SCHOENFELD</b>		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.</li> <li>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2))             <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input checked="" type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).             <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))             <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input checked="" type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).</li> <li>10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).</li> <li>11. <input type="checkbox"/> A copy of the International Preliminary Examination Report (PCT/IPEA/409).</li> <li>12. <input checked="" type="checkbox"/> A copy of the International Search Report (PCT/ISA/210).</li> </ol> <p>Items 13 to 23 below concern document(s) or information included:</p> <ol style="list-style-type: none"> <li>13. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>14. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>15. <input checked="" type="checkbox"/> A <b>FIRST</b> preliminary amendment.</li> <li>16. <input type="checkbox"/> A <b>SECOND</b> or <b>SUBSEQUENT</b> preliminary amendment.</li> <li>17. <input type="checkbox"/> A substitute specification.</li> <li>18. <input type="checkbox"/> A power of attorney and/or change of address letter.</li> <li>19. <input checked="" type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.</li> <li>20. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</li> <li>21. <input type="checkbox"/> A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).</li> <li>22. <input checked="" type="checkbox"/> Express Mail Label No. EV332144123US</li> </ol>		

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

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<p>23. Other items or information:</p> <ol style="list-style-type: none"> <li>1. Copy of Written Opinion</li> <li>2. Copy of PCT Request</li> <li>3. Copy of PCT Cover Page</li> <li>4. Sequence Listing (Paper) and Statement To Support</li> </ol>																																																																																																																																											
<p>The following fees have been submitted:</p> <table border="1"> <tr> <th colspan="2"></th> <th>CALCULATIONS</th> <th>PTO USE</th> </tr> <tr> <td>24. <input checked="" type="checkbox"/> Basic national fee .....</td> <td>\$300</td> <td>\$300.00</td> <td></td> </tr> <tr> <td>25. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4). . .</td> <td>\$0</td> <td>\$200.00</td> <td></td> </tr> <tr> <td>All other situations. ....</td> <td>\$200</td> <td></td> <td></td> </tr> <tr> <td>26. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4). . .</td> <td>\$0</td> <td></td> <td></td> </tr> <tr> <td>Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the as an International Searching Authority. ....</td> <td>\$100</td> <td>\$400.00</td> <td></td> </tr> <tr> <td>International Search Report prepared by an ISA other than the US and provided to the previously communicated to the US by the IB. ....</td> <td>\$400</td> <td></td> <td></td> </tr> <tr> <td>All other situations. ....</td> <td>\$500</td> <td></td> <td></td> </tr> <tr> <td><b>TOTAL OF 24, 25 and 26 =</b></td> <td></td> <td>\$900.00</td> <td></td> </tr> <tr> <td colspan="2"><input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(i)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Total Sheets</td> <td>Extra Sheets</td> <td>Number of each additional 50 or fraction thereof (round up to a whole)</td> <td>RATE</td> <td></td> <td></td> </tr> <tr> <td>- 100 =</td> <td>0 /50 =</td> <td>0</td> <td>x \$250.00</td> <td>\$0.00</td> <td></td> </tr> <tr> <td colspan="2">Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).</td> <td></td> <td></td> <td>\$</td> <td></td> </tr> <tr> <td>CLAIMS</td> <td>NUMBER FILED</td> <td>NUMBER EXTRA</td> <td>RATE</td> <td></td> <td></td> </tr> <tr> <td>Total claims</td> <td>63 - 20 =</td> <td>43</td> <td>x \$50.00</td> <td>\$2,150.00</td> <td></td> </tr> <tr> <td>Independent claims</td> <td>13 - 3 =</td> <td>10</td> <td>x \$200.00</td> <td>\$2,000.00</td> <td></td> </tr> <tr> <td colspan="2">MULTIPLE DEPENDENT CLAIMS (if applicable)</td> <td><input checked="" type="checkbox"/></td> <td>+ \$360.00</td> <td>\$360.00</td> <td></td> </tr> <tr> <td colspan="4"><b>TOTAL OF ABOVE CALCULATIONS =</b></td> <td>\$5,410.00</td> <td></td> </tr> <tr> <td colspan="4"><input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.</td> <td>\$0.00</td> <td></td> </tr> <tr> <td colspan="4"><b>SUBTOTAL =</b></td> <td>\$5,410.00</td> <td></td> </tr> <tr> <td colspan="4">Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).</td> <td>\$0.00</td> <td></td> </tr> <tr> <td colspan="4"><b>TOTAL NATIONAL FEE =</b></td> <td>\$5,410.00</td> <td></td> </tr> <tr> <td colspan="4">Fee for recording the enclosed assignment (37 CFR 1.21(h)). 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IAP12 Rec'd PCT/PTO 28 AUG 2006

PTO-1390 (Rev. 07-2005)

Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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- a.  A check in the amount of \$ \_\_\_\_\_ to cover the above fees is enclosed.
- b.  Please charge my Deposit Account No. 07-1392 in the amount of \$ \$5,410.00 to cover the above fees.  
A duplicate copy of this sheet is enclosed.
- c.  The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 07-1392. A duplicate copy of this sheet is enclosed.
- d.  Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.**

SEND ALL CORRESPONDENCE TO:



SIGNATURE

CUSTOMER 23347

Frank P. Grassler

NAME

31,164

REGISTRATION NUMBER

August 28, 2006

DATE

10/590829

## CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)

Applicant(s):

Docket No.  
Rec'd PCT/PTO 28 AUG 2006  
PLP575USw

Application No. To be assigned	Filing Date Concurrently Herewith	Examiner To be assigned	Customer No. 23347	Group Art Unit To be assigned
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Invention:

## REDUCTION OF SPONTANEOUS MUTATION RATES IN CELLS

I hereby certify that the following correspondence:

National Phase Application and accompanying documents, as detailed below.

(Identify type of correspondence)

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

August 28, 2006

(Date)

Johnie Jones

(Typed or Printed Name of Person Mailing Correspondence)

(Signature of Person Mailing Correspondence)

EV332144123US

Note: Each paper must have its own certificate of mailing.

1. Return postcard
2. Transmittal Letter concerning a submission under 35 USC 371 (fee pages in duplicate) (5 pages)
3. Preliminary Amendment (13 pages) with Abstract (1 page)
4. IDS with fee page in duplicate (3 pages total) and PTO 1449 (1 page) (Total of 4 pages)
5. Copy of International Search Report (4 pages)
6. Copy of Written Opinion (4 pages)
7. Computer-readable form of the sequence listing (1 CD enclosed)
8. Paper copy of sequence listing (3 pages), and Statement to Support (1 page)
9. Copy of PCT Request (5 pages)
10. Copy of PCT Cover Page (1 pages)